

KENWOOD

Listen to the Future



TK-2170/3170

Compact VHF/UHF FM Portable Radios

FleetSync®
by KENWOOD

GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 4 W (450-490, 400-430 MHz) Models
- Conventional Zones
- 128 Channels / 128 Zones¹
- Single Priority Scan
- Single & Multi-Zone Scan
- List Scan
- 8 Character Alphanumeric Aliases
- Backlit LCD
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 4 Front Panel PF keys
- 3 Side PF Keys
- Orange Emergency / AUX Key
- 12-Key DTMF / PF Keypad Models²
- 500 mW Audio Power
- Enhanced Kenwood Audio
- Companded Audio
- VOX Ready
- Voice Inversion Scrambler Built-in
- Encryption / ANI Board Control
- Easy Option Port (20-Pin)
- Emergency Call Features
- Emergency Man-Down Option
- QT / DQT
- Two-Tone Decode³
- Single / Two-Tone Encode³
- Operator Selectable Tone³
- DTMF Encode / Decode⁴
- Special Alert Tone Pattern⁵
- Call Key⁶
- Time Out Timer
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- Speaker Mic Options
- Windows® Programming & Tuning⁷
- Windows® Firmware Uploading⁷
- Field Programming & Tuning
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Intrinsically Safe Option

FleetSync®

- PTT ID Digital ANI
- Selective Call & Group Call⁸
- Status Messaging⁸
- Emergency Status
- Caller ID Display⁸
- Short Text Messages⁸
- PC Serial Interface



Keypad model also available.

Options

■ KNB-25A

Ni-Cd Battery Pack
(1,200mAh)

■ KNB-26N

Ni-MH Battery Pack
(2,000mAh)

■ KNB-35L

Li-ion Battery Pack
(7.4V/1950mAh)

■ KNB-40LC

Li-ion Battery Pack
(7.4V/1950mAh) I.S.

■ KBP-5

Battery Case

■ KSC-25

Rapid Charger

■ KSC-30

Charger for KNB-25A
and KNB-26N



■ KRA-22

VHF Low Profile
Helical Antenna

■ KRA-23

UHF Low Profile
Helical Antenna

■ KRA-26

VHF Helical Antenna

■ KRA-27

UHF Whip Antenna

■ KMC-17

Speaker Microphone



■ KMC-21

Speaker Microphone

■ KEP-2

Earphone Cord Kit
for KMC-17

■ KHS-1

Head Set with VOX/PTT

■ KHS-22

Head Set

■ KVC-3

Regular Rate Vehicular
Charger Adapter
(for KSC-30)

■ KVC-4

Rapid Rate Vehicular
Charger Adapter
(for KSC-25)



■ KHS-7A

Lightweight Single
Muff Headset

■ KHS-8BL

2-wire Palm Mic with
Earphone (Black)

■ KHS-9BL

3-wire Lapel Mic
with Earphone (Black)

■ KLH-138

Leather Case
w/Swivel Belt Loop

■ KLH-139 - for DTMF Model

Leather Case
w/Swivel Belt Loop

■ KBH-12

Belt Clip



Specifications

All accessories and options may not be available in all markets.
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

| Model | TK-2170 | TK-3170 |
|--|--|-----------------|
| GENERAL | | |
| Frequency Range | | |
| Type 1 | 136-174 MHz | 450-490 MHz |
| Type 3 | — | 400-430 MHz |
| Number of Channels | | |
| Zone | Max. 128 per Radio | |
| Conv. Ch | Max. 128 per Zone | |
| Channel Spacing | | |
| Wide/Narrow | 25, 30 kHz/12.5, 15 kHz | 25 kHz/12.5 kHz |
| Battery Voltage | 7.5V DC±20% | |
| Battery Life (5-5-90 duty cycle, during hi-power, battery saver off) | | |
| with KNB-25A (1200mAh) | Approx. 8 hours | |
| with KNB-26N (2000mAh) | Approx. 12 hours | |
| with KNB-35L (1950mAh) | Approx. 11 hours | |
| Operating Temperature Range* | -22°F ~ +140°F (-30°C ~ +60°C) | |
| Frequency Stability | ±2.5ppm (-22°F ~ +140°F) | |
| Antenna Impedance | 50 Ω | |
| Channel Frequency Spread | | |
| Type 1 | 38 MHz | 40 MHz |
| Type 3 | — | 30 MHz |
| Dimensions (W x H x D), Projections not Included | | |
| Radio Only | 2-7/32 x 4-5/16 x 5/8 in. (56 x 109 x 16.6 mm) | |
| with KNB-35L | 2-7/32 x 4-5/16 x 1-1/4 in. (56 x 109 x 31.7 mm) | |
| with KNB-25A/26N | 2-7/32 x 4-5/16 x 1-1/2 in. (56 x 109 x 37.9 mm) | |
| Weight (net) | | |
| Radio Only | 7.2 oz. (205 g) (includes supplied accessories) | |
| with KNB-25A | 14.6 oz. (415 g) [with antenna (KRA-22/23) and belt clip (KBH-12)] | |
| with KNB-26N | 16.0 oz. (455 g) [with antenna (KRA-22/23) and belt clip (KBH-12)] | |
| with KNB-35L | 12.0 oz. (340 g) [with antenna (KRA-22/23) and belt clip (KBH-12)] | |
| FCC ID | | |
| Type 1 | ALH34703110 | ALH34713110 |
| Type 3 | — | ALH34713130 |
| IC Certification | | |
| Type 1 | 282D-34703110 | 282D-34713110 |
| Type 3 | — | 282D-34713130 |

*+14°F ~ +140°F (-10°C ~ +60°C) when KNB-26N/35L in use

| Model | TK-2170 | TK-3170 |
|---|-------------------------------------|---------|
| RECEIVER (Measurements made per TIA/EIA-603) | | |
| Sensitivity (12dB SINAD) | | |
| Wide | | 0.25 µV |
| Narrow | | 0.28 µV |
| Selectivity | | |
| Wide | | 70 dB |
| Narrow | | 65 dB |
| Intermodulation Distortion | | |
| Wide | | 65 dB |
| Narrow | | 60 dB |
| Spurious Response | | 65 dB |
| Audio Output (4 Ω Impedance) | 500 mW with less than 5% distortion | |
| TRANSMITTER (Measurements made per TIA/EIA-603) | | |
| RF Output Power | | |
| High | 5 W | 4 W |
| Low | 1 W | 1 W |
| Spurious Response | | 70 dB |
| Type of Emission | | |
| Wide | | 16K0F3E |
| Narrow | | 11K0F3E |
| FM HUM & Noise | | |
| Wide | | 45 dB |
| Narrow | | 43 dB |
| Audio Distortion | Less than 5% | |

Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.
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All other trademarks are property of their respective owners.

Applicable MIL-STD & IP

| Standard | MIL 810C Methods/Procedures | MIL 810D Methods/Procedures | MIL 810E Methods/Procedures | MIL 810F Methods/Procedures |
|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Low Pressure | 500.1/Procedure I | 500.2/Procedure I, II | 500.3/Procedure I, II | 500.4/Procedure I, II |
| High Temperature | 501.1/Procedure I, II | 501.2/Procedure I, II | 501.3/Procedure I, II | 501.4/Procedure I, II |
| Low Temperature | 502.1/Procedure I | 502.2/Procedure I, II | 502.3/Procedure I, II | 502.4/Procedure I, II |
| Temperature Shock | 503.1/Procedure I | 503.2/Procedure I | 503.3/Procedure I | 503.4/Procedure I, II |
| Solar Radiation | 505.1/Procedure I | 505.2/Procedure I | 505.3/Procedure I | 505.4/Procedure I |
| Rain | 506.1/Procedure I, II | 506.2/Procedure I, II | 506.3/Procedure I, II | 506.4/Procedure I, III |
| Humidity | 507.1/Procedure I, II | 507.2/Procedure II, III | 507.3/Procedure II, III | 507.4 |
| Salt Fog | 509.1/Procedure I | 509.2/Procedure I | 509.3/Procedure I | 509.4 |
| Dust | 510.1/Procedure I | 510.2/Procedure I | 510.3/Procedure I | 510.4/Procedure I, III |
| Vibration | 514.2/Procedure VIII, X | 514.3/Procedure I | 514.4/Procedure I | 514.5/Procedure I |
| Shock | 516.2/Procedure I, II, V | 516.3/Procedure I, IV | 516.4/Procedure I, IV | 516.5/Procedure I, IV |
| International Protection Standard | | | | |
| Dust & Water Protection | IP54/55 | | | |

*To meet MIL 810 and IP grade, the 2-pin connector cover has to be connected.

Footnotes from front:

- Conventional Zones: 128 Channels /128 Zones max. per radio; 128 CH max. per Zone.
- Keypad models only.
- Two-Tone Decode (3 sets x 2 pairs each); Single / Two-Tone Encode (10 tones), Operator Selectable Tone (40 QT.DQT code pairs).
- DTMF Encode: PTT ID, Emergency ANI, Auto-Dial (16 numbers); Manual Encode (keypad models).DTMF Decode: Code Squelch (3-10 digit), Selective Call (9-digit with status) Group Codes A,B, C, D & Wild Card characters) and radio Stun.
- Special Alert Tone Patterns operate for 2-Tone, DTMF, FleetSync® selective call decode.
- Call Key 1 & 2: operates for 2-Tone, DTMF and FleetSync® status encode.
- KPG-101D required: Windows®98/ NT/ 2000/ Me/XP compatible; English/Spanish screen languages.
- ID List capacity is 100 ID's; Short Text Messages are radio stored & LCD displayed; Status Message List capacity is 50.

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